Organization Applicant

        Street :
        City : Arnhem
        State :
        Country : Netherlands
        PostalCode :
        PhoneNumber :
        FaxNumber :
        EmailAddress :
<110> OrganizationName : Akzo Nobel NV

Application Project

<120> Title : Babesia canis vaccine
<130> AppFileReference : 2001.004 US
<140> CurrentAppNumber : 10/087,573
<141> CurrentFilingDate : 2002-02-28

Earlier Applications

<150> PriorAppNumber : EP01200816.5
<151> PriorFilingDate : 2001-03-06

Sequence

<213> OrganismName : Babesia canis
<400> PreSequenceString :
gaattcggca cgagccctgc tatactgtgc tttgcaacta actccatcgt aataatttaa   60
tataataata aaggatggag tcgacatcaa caacgaccaa ctttgttgcc gagaaccgtc   120
ccacctttgg tgagacgttt gatgtgatga gggaagcttt gcttcgtgta aagtcctctg   180
aacgcttggc aatgctcaga gcgcttgcag gaatgtgcgg tcaccgcgtc cttcctggca   240
ctggtgcttc tgcgatagcg gcaacggtaa ccccaaaggg ggcttcgatg aagcttaaac   300
caccgcgtcc gcagtcaacg aagtctccgg agctcaggga gctgtcacgg aagattcgcg   360
aaatgaataa gactataagt caggaatcag ctcgggtaaa ccaccggttg ccggaaggcc   420
accctctctt agagaagcgg gcagaatatt ttcgtcacct tagatctctt aagagccaag   480
gagtcaatag actcatctaa gaaggcacta cgtaggtacc gtgcctctat gaggaatacg   540
aaccgactag tgcacaatag acgaccagtt ctaccaaagg tagagcctga ctctaatcta   600
ccattcggcc agcgacggag tcgcatgaca acgtggaatc ttagaccacg ccggacgggt   660
tatccgtcaa atggtacttt ggcagttacg gaactcctga tctcgattta tagatcaaac   720
ttctacacct tgaaggtggt cgaggaaggg agatgtacgt gctgcaacac ccataaggag   780
caagctttgc tactcctatc cggttacctc cagctatatc gtgcactgca ctcagttgga   840
aggtctgtat tcgtagaata ctgcaaaacc aggatatgcg tcgaggcacg cctcaccgga   900
ctacgtccga gggtgaccct aacgggctgc tgaactaggt tcagccagcg cttcctgtga   960
gtatgtcatt ccgggtcctt cggggcccgg gccagtttcg actggtgtag gtttgcccta   1020
ctagagtact tgcgacgccg aagcgcctcc gttcaaaaga acgcgcaagc cctagcagag   1080
aaatgcgagg gcatgactct tcgagtcaaa aaaaaaaaaa aaaaaaaaac tcgag   1135

<212> Type : DNA
<211> Length : 1135
        SequenceName : SEQ ID NO: 1
        SequenceDescription :

Sequence

<213> OrganismName : Babesia canis
<400> PreSequenceString :
MESTSTTTNF VAENRPFGET FDVMREALLR VSSERLAMLR ALAGMCHRVL PGTGASAIAA   60
TTPKGASMKL KPPRPQTKSP ELRELSRKIR ENKTISQESA RVNHRLEGHP LLEKRAEYFR   120
HRSLKSQGVN RLI   133
<212> Type : PRT
<211> Length : 133
        SequenceName : SEQ ID NO: 2

SequenceDescription :

Sequence

<213> OrganismName : Babesia canis
<400> PreSequenceString :
```
gaattcggca cgagccctgc tatactgtgc tttgcaacta actccatcgt aataatttaa   60
tataataata aaggatggag tcgacatcaa caacgaccaa ctttgttgcc gagaaccgtc  120
ccacctttgg tgagacgttt gatgtgatga gggaagcttt gcttcgtgta aagtcctctg  180
aacgcttggc aatgctcaga gcgcttgcag gaatgtgcgg tcaccgcgtc cttcctggca  240
ctggtgcttc tgcgatagcg gcaacggtaa ccccaaaggg ggcttcgatg aagcttaaac  300
caccgcgtcc gcagtcaacg aagtctccgg agctcaggga gctgtcacgg aagattcgcg  360
aaatgaataa gactataagt caggaatcag ctcgggtaaa ccaccggttg ccggaaggcc  420
accctctctt agagaagcgg gcagaatatt tcgtcacctt agatctctta agagccaagg  480
agtcaataga ctcatctaag aaggcactac gtaggtaccg tgcctctatg aggaatacga  540
accgactagt gcacaataga cgaccagttc taccaaaggt agagcctgac tctaatctac  600
cattcggcca gcgacggagt cgcatgacaa cgtggaatct tagaccacgc cggacgggtt  660
atccgtcaaa tggtactttg gcagttacgg aactcctgat ctcgatttat agatcaaact  720
tctacacctt gaaggtggtc gaggaaggga gatgtacgtg ctgcaacacc cataaggagc  780
aagctttgct actcctatcc ggttacctcc agctatatcg tgcactgcac tcagttggaa  840
ggtctgtatt cgtagaatac tgcaaaacca ggatatgcgt cgaggcacgc ctcaccggac  900
tacgtccgag ggtgaccccta acgggctgct gaactaggtt cagccagcgc ttcctgtgag  960
tatgtcattc cgggtccttc ggggcccggg ccagtttcga ctggtgtagg tttgccctac 1020
tagagtactt gcgacgccga agcgcctccg ttcaaaagaa cgcgcaagcc ctagcagaga 1080
aatgcgaggg catgactctt cgagtcaaaa aaaaaaaaaa aaaaaaaact cgag         1134
```

<212> Type : DNA
<211> Length : 1134
      SequenceName : SEQ ID NO: 3
      SequenceDescription :

Sequence

<213> OrganismName : Babesia canis
<400> PreSequenceString :
```
MESTSTTTNF VAENRPFGET FDVMREALLR VSSERLAMLR ALAGMCHRVL PGTGASAIAA   60
TTPKGASMKL KPPRPQTKSP ELRELSRKIR ENKTISQESA RVNHRLEGHP LLEKRAEYFV  120
TDLLRAKESI DSSKKARRYR ASMRNTNRLV HRRPVLPKVE PDSNLPGQRR SRMTTWNLRP  180
RTGYPSNGTL AVTELLSIYR SNFYTLKVVE ERCTCCNTHK EQALLLSGYL QLYRALHSVG  240
RVFVEYCKTR ICVEARTGLR PRVTLTGC                                     268
```
<212> Type : PRT
<211> Length : 268
      SequenceName : SEQ ID NO: 4
      SequenceDescription :

Sequence

<213> OrganismName : Babesia canis
<400> PreSequenceString :
```
ggatcctaat acgactcact atagggagac caccatggag tcgacatcaa caacgaccaa   60
ctttgttgcc gagaaccgtc ccacctttgg                                    90
```
<212> Type : DNA
<211> Length : 90
      SequenceName : SEQ ID NO: 5
      SequenceDescription :

Sequence

<213> OrganismName : Babesia canis
<400> PreSequenceString :
```
gacgtttgat gtgatgaggg aagc                                          24
```
<212> Type : DNA
<211> Length : 24

SequenceName : SEQ ID NO: 6
SequenceDescription :

Sequence

<213> OrganismName : Babesia canis
<400> PreSequenceString :
aatgacatac tcacaggaag c   21
<212> Type : DNA
<211> Length : 21
SequenceName : SEQ ID NO: 7
SequenceDescription :

Sequence

<213> OrganismName : Babesia canis
<400> PreSequenceString :
atgagtctat tgactccttg   20
<212> Type : DNA
<211> Length : 20
SequenceName : SEQ ID NO: 8
SequenceDescription :

Sequence

<213> OrganismName : Babesia canis
<400> PreSequenceString :
agggagctgt cacggaagat t   21
<212> Type : DNA
<211> Length : 21
SequenceName : SEQ ID NO: 9
SequenceDescription :

Sequence

<213> OrganismName : Babesia canis
<400> PreSequenceString :
atgaggaatt cgaaccgact a   21
<212> Type : DNA
<211> Length : 21
SequenceName : SEQ ID NO: 10
SequenceDescription :

Sequence

<213> OrganismName : Babesia canis
<400> PreSequenceString :
gcagaatatt ttcgtcacct tagatctctt aagagccaag gagtaataga ctcatctaag 60
aaggcactac gta   73
<212> Type : DNA
<211> Length : 73
SequenceName : SEQ ID NO: 11
SequenceDescription :

Sequence

<213> OrganismName : Babesia canis
<400> PreSequenceString :
gacgtttgat gtgatgaggg aagc   24
<212> Type : DNA
<211> Length : 24
SequenceName : SEQ ID NO: 12
SequenceDescription :

Sequence

<213> OrganismName : Babesia canis
<400> PreSequenceString :
agggagctgt cacggaagat t   21
<212> Type : DNA
<211> Length : 21
     SequenceName : SEQ ID NO: 13
     SequenceDescription :

Sequence

<213> OrganismName : Babesia canis
<400> PreSequenceString :
aatgacatac tcacaggaag c   21
<212> Type : DNA
<211> Length : 21
     SequenceName : SEQ ID NO: 14
     SequenceDescription :

Sequence

<213> OrganismName : Babesia canis
<400> PreSequenceString :
atgagtctat tgactccttg   20
<212> Type : DNA
<211> Length : 20
     SequenceName : SEQ ID NO: 15
     SequenceDescription :